GUSAROVA, A.S., kand. med. nauk; ZALEM, Z.Ya.

Treatment of patients with acneform rash. Vest. derm. i ven.
39 no.4:57-61 Ap '65. (MIRA 19:2)

1. Institut vrachebnoy kosmetiki (dir. A.F. Akhabadze) Ministerstva
zdravookhraneniya RSFSR, Moskva.

ZALENIN, A.V., kand. med. nauk; KHRUSHCHOV, N.G.

International Congress on Histo- and Cytochemistry. Vest. AN SSSR 34 no.1:76-77 Ja '65. (MIRA 18:2)

ZALENKOV, F. (Ashkhabad)

House with spring foundation. Tekh.mol. 28 no.10:36b '60.
(MIRA 13:10)

(Earthquakes and building)

GANCZARCZYK, Jerzy; SUSCHKA, Jan; ZALENSKA, Krystyna

Initial studies on the purification of sewage from the production of sulfite cellulose as performed on an experimental tower. Gaz woda techn sanit 37 no.11:354-358 N '63.

1. Hydroprojekt, Gliwice.

GANCZARCZYK, J., dr. inz.; ZALENSKA, K., mgr inz.; SUSCHKA, J., mgr inz.

Pilot-plant experiments on biological purification of waste waters from sulfate pulp production by the activated sludge method. Przegl papier 18 no.12:374-377 D '62.

1. Biuro Projektow Hydroprojekt, Gliwice.

1

ZALENSKAYA, V.V.

Congress of the CPSU, a twenty-second congress of the builders of communism. Zdrav. kazakh. 21 no.12:3-7 '61. (MIRA 15:3)
(PUBLIC HEALTH) (COMMUNISM)

P/005/61/000/006/004/005
A076/A026

AUTHORS: Zdebik, J.; Zaleński, Cz.; Masters of Engineering

TITLE: Nitrogen Plant im. F. Dzierżyński in Tarnów Always First

PERIODICAL: Przegląd Techniczny, 1961, No. 6, pp. 8 - 9

TEXT: The authors outline the production history of the above plant and generally describe the products planned for 1961 - 1965. The authors list acrylonitrile, synthetic resins, polyvinyl chloride, ammonia synthesis. Half a million tons of nitrogen fertilizers are produced annually, 13,000 tons of synthetic fibres type orlon, about 18,000 tons of caprolactam, and about 80,000 tons of plastic products made of polyvinyl chloride. All new products will be based on natural gas as the basic raw material. The plant will be expanded and new production sections built equipped with most modern machines and natural gas processing installations made either in Poland or abroad. The expansion will cost about 6 billion złoty; of this amount 50% will be spent by 1965. New technological processes will be introduced and technical progress will be intensified.

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Card 1/1

ZHIZNEVSKIY, F., red.; ZALENSKIY, N., red.; LYAKHOVETSKAYA, T., red.;
GRABARNIK, A., otv. za vypusk; ZLOBIN, M., tekhn.red.

[Flourish, territory of virgin lands] Tsveti, tselinnyi krai.
Alma-Ata, Kazakhskoe gos.izd-vo, 1958. 325 p. (MIRA 13:4)
(Kazakhstan--Reclamation of land)

BIRYUKOV, Viktor Pavlovich; ZALENSKIY, N.D., red.; NAGIBIN, P.N., tekhn.red.

[Across the Kazakhstan land] Po zemle kazakhstanskoi. Alma-Ata, Kazakhskoe gos.izd-vo, 1959. 185 p. (MIRA 13:9)
(Kazakhstan--Economic conditions)

ZALESKI, Roman, mgr inz.

Zinc plating furnace for pipes heated by radiating walls. Rudy i metale 9 no.11:631 N '64.

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

BC

A-4

Photosynthesis in [illegible] (Compt. rend. Acad. Sci. U.R.S.S., 1941, 32, [illegible]—[illegible] methods of [illegible] the rates of assimilation of CO_2 by wheat and barley [illegible] 400 and 100 mg. [illegible] per [illegible] 1000 [illegible] photosynthesis [illegible] plants almost or completely absent. R. H. [illegible]

COMMON ELEMENTS

COMMON VARIABLES INDEX

MATERIALS INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS INDEX

AUTHOR INDEX

1ST GROUPS

3RD AND 4TH ORDERS

3RD LETTER

1ST AND 2ND LETTER

ZALENSKIY, OLEG VYACHESLAVOVICH.

Mbr., Pamir Biological Sta., Tadzhik Affil., Acad. Sci.,-c1948-49-.

Mbr., Botanical Inst., im. V. L. Komarov, Dept. Biol. Sci., Acad. Sci., -c1948-.

"Basic Elements of Carbon Dioxide Conversion Effected by Plant Leaves under Natural Conditions," Dok. AN, 61, No. 1, 1948;

"Short Summation of the Botanical of Pamir," Botan. Zhur., 34, No. 4, 1949.

ZALENSKIY, O. V.

28982 Kratkie itogi botanicheskikh issledovaniy Pamira. (K 10-Letiyu Rabot Pamirskoy biol Stantsii Tadzh. Filiala Akad, Navk SSSR). Botan. Zhurnal, 1949, N o 4, S. 442-58--Bibliogr: S. 454-58

SO: Letopis' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

[illegible]

35983 Izmeneniya zavisimosti fotosinteza ot temperatury na protyazhenii vegetatsionnogo perioda rasteniy. Soobshch. Tadzh. Filiala akad. Nauk SSSR, Vyp. 17, 1949, S. 3-7

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

ZALENSKIY, O. V.

35982 Deystviye sveta na nakopleniye razlichnykh form uglevodov i azota v list'yakh rasteniy. Soobshch. Tadzh. Filiala Akad. Nauk SSSR, Vyp. 17, 1949, S. [illegible]-20

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

1. ZALENSKIY, O. V.

2. USSR (600)

4. Botanists

7. Creative path of Pavel Aleksandrovich Baranov. Bot. zhur 37, no. 5, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

Zalenskiy, O.V.

BARANOV, P.A., redaktor; GENKEL', P.A., redaktor; KUPREVICH, V.F., redaktor; LAVRENKO, E.M., redaktor; SOCHAVA, V.B., redaktor; SUKACHEV, V.N., redaktor; TIKHOMIROV, B.A., redaktor; SHISHKIN, B.K., redaktor; ZALENSKIY, O.V., redaktor.

[Problems in botany] Voprosy botaniki. Moskva, Izd-vo Akademii nauk SSSR. Vol. 1-2. 1954. 904 p. [In Russian and French] (MLRA 7:11)

1. Vsesoyuznoye botanicheskoye obshchestvo.
(Botany)

ZALENSKIY, O.V.

PAVLOVSKIY, Ye.N., akademik, redaktor; BARANOV, P.A.; IL'IN, M.A.,
professor, doktor biologicheskikh nauk, redaktor; GRICHUK, V.P.,
redaktor; ~~ZALENSKIY, O.V.~~, redaktor; KRISHTOFOVICH, A.N., redaktor
[deceased]; LARIN, I.V., zasluzhennyy deyatel' nauki, professor,
redaktor; MALYUGIN, Ye.A., redaktor; RODIN, L.Ye., redaktor; SHARAPOV,
N.I., redaktor; BOLOVIN, M.M., redaktor; LITKEVICH, S.V., redaktor;
PEVZNER, R.S., tekhnicheskiy redaktor

[U.S.S.R. waste lands and their reclamation] Pustyni SSSR i ikh
osvoenie. Moskva, Izd-vo Akademii nauk SSSR. Vol. 2 1954. 801 p.
(MLRA 8:2)
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1. Akademiya nauk SSSR. Botanicheskiy institut. 2. Chlen-korrespondent Akademii nauk SSSR (for Krishtofovich, Pavlovskiy).
(Reclamation of land) (Phytogeography)

ZALENSKIY, O V

ZALENSKIY, O.V.; SEMIKHATOVA, O.A.; VOZNESENSKIY, V.L.; KONOVALOV, I.N., redaktor; YAKOVLEVA, V.M., redaktor; KARYAKIN, A.V., redaktor; ARONS, R.A., tekhnicheskiy redaktor.

[Using radioactive carbon C^{14} in the study of photosynthesis] Metody premeneniia radioaktovnogo ugleroda C^{14} dlia izucheniia fotosinteza. Moskva, Izd-vo Akademii nauk SSSR, 1955. 88 p.
(Photosynthesis) (MLRA 8:11)
(Carbon--isotopes)

ZALENSKIY, O.V.

3589 AEC-tr-2435((Pt. 4)(p.137-38))
DISTRIBUTION OF CARBON AMONG THE ORGANIC SUBSTANCES FORMED BY PHOTOSYNTHESIS. O. V. Zalensky [Zalenskii]. p.137-38 of CONFERENCE OF THE ACADEMY OF SCIENCES OF THE USSR ON THE PEACEFUL USES OF ATOMIC ENERGY, JULY 1-5, 1955. [illegible] (Translation). 1p.

This paper was originally abstracted from the Russian and appeared in Nuclear Science Abstracts as NSA 9-7658.

ZALENSKIY, O.V.

MO

Distribution of carbon among organic substances formed in the participation of photosynthesis. O. V. Zalenskii. *Sessiya Akad. Nauk S.S.S.R. po Mirnomu Ispol'zovaniyu Atomnoi Energii* 1955, *Zasedaniya Otdel. Biol. Nauk*, 198-218(English summary, 210-20).—A 10-40 min. photosynthesis in $C^{14}O_2$ enriched atm. results in possible detn. of C^{14} in plants (which had been kept in normal atm.) for 2 weeks after the exposure or longer. Loss of C^{14} in barley which occurs, rapidly at first, can be accounted for by the 2 counter-current processes, the net of which is the utilization of C in photosynthesis. Motion of labeled org. matter from leaves into roots occurs most rapidly in the 1st few hrs. after photosynthesis; this is accelerated by low night temp. (about 0°) which also retards the accumulation of C in lipides and complex proteins and cellulosic matter of the root system. Plants from elevated deserts (Pamir) utilize larger amts. of CO_2 taken in during early summer mornings for formation of org. substances, which are not extd. with EtOH and which are not sol. carbohydrates. Distribution of assimilated C among org. substances varies with different plant species, but compn. of sugars and org. acids are quite similar among *Artemisia skorniakovii*, *Eurotia ceratoides*, *Zygophyllum rosovii*, and *Lindelofia stylosa*. Cf. Norris *et al.*, *J. Exptl. Botany* 6, 16(1955). G. M. Kosolapoff

ZALENSKIY, O.V.

Photosynthesis and frost resistance of agricultural plants in the high Pamirs. Trudy Bot.inst.Ser.4 no.10:194-227 '55. (MLRA 9:5)
(Pamirs--Plants--Frost resistance) (Pamirs--Photosynthesis)

ZALENSKIY, O.V.

MD

Temperature influence on the metabolism of carbon-14
absorbed in the process of photosynthesis. O. V. Zalen-
skii, V. L. Voznesenskii, M. M. Ponomareva, and T. P.
Shtan'ko (Pamir Biol. Sta., Acad. Sci. Tadzhik. S.S.R.).
Botan. Zhur. 40, 347-58(1955).—Barley seedlings exposed
to a CO_2 atm. contg. tagged C released the C at
the highest speed by respiration during the first hrs. after
it was absorbed in the process of photosynthesis. With

time, the speed of C assimilation slowed down. The
quantity of C in the root system increased rapidly during
the first hrs. after photosynthesis ceased, and after that
the quantity leveled off to a const. Lowered temps. at
night, prior to the photosynthesis tests, retarded the utiliza-
tion of the assimilated C from the H_2O and alc.-sol. compds.
This caused an accumulation of the C in the leaves of those
substances sol. in benzene, the proteins (alkali fraction), and
the cellulose. At the same time lowered temps. activate
the translocation of assimilated C from the leaves into the
roots. In this case there is an intensive accumulation of
tagged C in the complex proteins of the roots. J. S. Joffe

ZALENSKII, O. V.

USSR / Plant Physiology. Photosynthesis. I

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 34233

Author : Zalenskiy~~, O. V.~~
Inst : Academy of Sciences USSR
Title : Econogico-Physiological Study of Production Factors in Wild Perennial Plants.

Orig Pub : V sb.: Akad. V. N. Sukachovu k 75-letiyu sodnya rozhd., M. - L., AN SSSR, 1956, 1956, 217-230/

Abstract : Daily and seasonal changes of photosynthesis and breathing in wild perennial plants of Pamir - Eurotis ceratoides, S. A. Mey, Artemisia Skorniakowi C. Winkl and feather grass (Sipa glareosa, P. Smirn.) have been studied. The surface of the leaves of these plants increases slowly with growth, which appears as one of the reasons for their low production capacity. However, during one vegetation period, the spreading of the leaf surface quickly

Card 1/2

USSR/Plant Physiology. Respiration and Metabolism I-2

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 91294

Author : Zalenskiy O.V.
Inst : Botanical Inst. AS USSR
Title : The Interrelationships Between Photosynthesis and Respiration

Orig Pub : Botan. zh., 1957, 42, No 11, 1674-1690

Abstract : This study covers the emission of CO_2 by the plants Polygonum sachalinensis, Prunus laurocerasus, Vicia faba, Mohonia aquifolium and others in the light with varying conditions of Photosynthesis. The saturation of the leaves with $C^{14}O_2$ was accomplished by keeping the shoots for 72 hours in a special hermetic chamber containing 1 percent $C^{14}O_2$ with an activity of 0.5 m curie per 1 liter of CO_2. The lighting of the chamber was of 8-10 hrs. duration during every 24-hour period. Then the leaves were placed into the chambers with a different CO_2 content (0.07:1 and 2 percent), or into a stream of air deprived of CO_2. In all the experiments the emission of $C^{14}O_2$ in the respiration occurred only in darkness. In the

Card : 1/2

ZALENSKIY, O.V.

Interrelation between photosynthesis and respiration. Bot.zhur. 42 no.11:1674-1690 N '57. (MIRA 10:10)

1.Botanicheskiy institut im. V.L. Komareva AN SSSR, Leningrad.
(Photosynthesis) (Plants--Respiration)

ZALENSKIY, O. V., SEMIKHATOVA, O. A. and VOZNESENSKIY, V. L.

"Quantitative Methods of Investigation of Photosynthesis with the Aid of Radioactive Carbon."

paper to be presented at 2nd UN INtl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sep 58.

ZALENSKIY, O.V.

(4) PHASE I BOOK EXPLOITATION SOV/2713

International Conference on the Peaceful Uses of Atomic Energy. 2nd, Geneva, 1958

Doklady sovetskikh uchenykh; polucheniye i primeneniye izotopov (Reports of Soviet Scientists; Production and Application of Isotopes) Moscow, Atomizdat, 1959. 388 p. (Series: Its: Trudy, vol. 6) 8,000 copies printed.

Eds. (Title page): G.V. Kurdyumov, Academician, and I.I. Novikov, Corresponding Member, USSR Academy of Sciences; Ed. (Inside book): Z.D. Andreyenko; Tech. Ed.: Z.D. Andreyenko.

PURPOSE: This book is intended for scientists, engineers, physicians, and biologists engaged in the production and application of atomic energy to peaceful uses; for professors and graduate and nongraduate students of higher technical schools where nuclear science is taught; and for the general public interested in atomic science and technology.

COVERAGE: This is volume 6 of a 6-volume set of reports delivered by Soviet scientists at the Second International Conference on the Peaceful Uses of Atomic Energy held in Geneva from September 1 to 13, 1958. Volume 6 contains 32 reports on: 1) modern methods for the production of stable radioactive isotopes and their labeled compounds, 2) research results obtained with the aid of isotopes in the field of chemistry, metallurgy, machine building, and agriculture, and 3) dosimetry of ionizing radiation. Volume 6 was edited by: S.V. Levinskiy, Candidate of Medical Sciences; V.N. Prusakov, Candidate of Chemical Sciences; and V.V. Sedov, Candidate of Medical Sciences. See SOV/2081 for titles of volumes of the set. References appear at the end of the articles.

16. Bibergal', A.V., V.L. Karpov, and V.I. Sinitsyn. Cobalt Sources of High Intensity for Radiative Action (Report No. 2234) 200

17. Gusev, N.G., Ye. Ye. Kovalev, and V.I. Popov. Gamma Radiation Inside and Outside Extended Sources (Report No. 2088) 211

18. Aglintsev, K.K., M.A. Bak, V.V. Bochkarev, Ye.G. Gracheva, Z.V. Yershova, and K.A. Petrzhak. System of Radiometric Measurement of Radioactive Isotopes (Report No. 2087) 227

19. Aglintsev, K.K., V.P. Kasatkin, V.V. Mitrofanov, and V.V. Smirnov. Application of Nuclear Spectroscopy Methods to Beta and Gamma-ray Dosimetry (Report No. 2503) 237

20. Baranov, P.S., V.I. Gol'danskiy, and V.S. Roganov. Instrument for Measuring Small Streams of High-energy Neutrons (Report No. 2083) 244

21. Chubakov, A.A., V.I. Polikarpov, and V.A. Kuleshova. Measuring and Analyzing Air Contamination by Low Concentrations of Aerosol Alpha Emitters (Report No. 2130) 248

22. Zalenskiy, O.V., V.L. Voznesenskiy, and O.A. Semikhatova. Photosynthesis Studied by Quantitative Radiometric Methods (Report No. 2135) 260

23. Rakitin, Yu.V. and A.V. Krylov. Studying the Transfer, Distribution, and Transformation of Certain Physiologically Active Compounds in Plants (Report No. 2133) 274

24. Omar, I.I., Ye.Ye. Krastina, and A.Ye. Petrov-Spiridonov. Rhythm of Absorption and Secretion in Roots (Report No. 2233) 285

25. Akhromeyko, A.I., and V.A. Shestakova. Effect of the Rhizospheric Microorganisms on the Absorption and Secretion of Phosphorus and Sulfur by the Seedling Roots of Woody Plants (Report No. 2312) 306

26. Razumov, V.I., and N.D. Poofanova. Absorption of Phosphorus Tracers by Cultivated Plants in Relation to Their Resistance to Cold (Report No. 2313) 313

27. Andreyev, S.V., A.V. Voyevodin, V.A. Molchanova, and A.V. Khotyanovich. Some Results of Using Radioactive Isotopes for Plant Protection (Report No. 2309) 322

Alloys of Zirconium and Titanium Base by the Radioactive Isotope Method (Report No. 2526) 189

f. Absorption and translocation of mineral elements applied to the leaves of plants. N I [illegible] and G N [illegible], USSR Academy of Sciences, Moscow

g. Proteolytic processes under the conditions of an adverse water balance. N M Sisakyan, A N Bakh Institute of Biochemistry, Academy of Sciences USSR, Moscow

h. The role of oxidation enzymes in the ripening and storage of fruits. B A Rubin, A N Bakh Institute of Biochemistry, Academy of Sciences, USSR, Moscow

i. Dependence of mineral composition of plants on the environmental conditions. A I Zurbicki, Academy of Sciences USSR, Moscow

j. Introduction of topic at seminar on growth substances and their action. A F [illegible] and I N Konovalov, V L Komarov Botanical Institute Academy of Sciences, USSR, Leningrad

k. Nucleic acids and plant morphogenesis. V G Konarev, Bashkirian Branch of Academy of Sciences USSR, Ufa, USSR

l. The state of desoxyribonucleic acid in the nucleus and age changes in the plant cell. V G Konarev, R I [illegible], T N [illegible], A F [illegible] and I F [illegible], Bashkirian Branch of Academy of Sciences, USSR, [illegible], Ufa

m. Biochemical properties of plant cell nuclei. N M Sisakyan and N A Vasilieva, A N Bakh Institute of Biochemistry, Academy of Sciences, USSR, Moscow

n. Interrelationships between respiration and photosynthesis. O V Zalenskiy, V L Komarov Botanical Institute, Academy of Sciences USSR, Leningrad

o. Oxidases other than cytochrome oxidase in plants. T A [illegible], A N Bakh Institute of Biochemistry, Academy of Sciences, USSR, Moscow

p. On vernalization problems. V I Razumov, Institute of Plant Industry, Leningrad, USSR

q. Promoting effect of microelements on the resistance of plants to unfavorable conditions. M Y Shkolnik, Academy of Sciences, USSR, Leningrad

r. L'application des changements morphologiques et chimiques des organes reproductifs embryonnaires pour la diagnose du besoin des plantes en engrais. V V Tserling, l'Academie des Sciences de l'URSS, Moscow

s. Peculiarities of the changes of physiological processes in plants correlated with frost hardiness. I N Konovalov, N I [illegible], K B [illegible], A I [illegible], and N V [illegible], V L Komarov Bot Inst, Academy of Sciences, USSR, Leningrad

t. Photoperiodism in trees. B S Moshkov, Laboratory of Light Physiology, Leningrad, USSR

u. The vegetation of natural grasslands of the USSR, T V Lavrin, Leningrad

v. The cytology of fertilization in flowering plants. M Gerassimova-Navashina, Botanical Institute, Academy of Sciences, USSR, Leningrad

w. The correlation between the concepts "forest ecosystem" and "forest biogeocoenose" and their importance for the classification of forests. V N Sukachev, Forest Institute, Academy of Sciences USSR, Moscow

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[illegible] submitted but not presented at the Intl. Botanical Congress [illegible]

ZALENSKIY, O.V.

USSR

BOYCHENKO, Ye. A. Dr. - "Chloroplast Enzymes Participating in CO_2 Fixation" (Session C)

ROMAN, N. A., Dr., Institute of Biochemistry, imeni A. N. BAKH, USSR Academy of Sciences - "Primary Products of CO_2 Assimilation in Photosynthesis" (Session D)

YEVSTIGNEYEV, V. B., Dr. - "Photosensibilization of Chlorophyll Under Heterogeneous Conditions" (Session B)

KRASNOVSKIY, A. A., Institute of Biochemistry, imeni A. N. BAKH, USSR Academy of Sciences - "The Nature of Chlorophyll Under Heterogenous Conditions" (Session B)

NICHIPOROVICH, A. A., Dr., Institute of Plant Physiology, imeni K. A. TIMIRYAZEV, USSR Academy of Sciences - "Ways of Carbon and Nitrogen in Photosynthesis" (Session D)

SAPOZHNIKOV, D. I., Institute of Botany, imeni V. L. KOMAROV, USSR Academy of Sciences - "Participation of Carotenoids in Reactions of Photosynthesis" (Session C)

ZALENSKIY, O. V., Dr., Institute of Botany, imeni V. L. KOMAROV, USSR Academy of Sciences - "Relation between Photosynthesis and Respiration" (Session D)

Report to be presented at the 5th Int'l Congress of Biochemistry, Moscow, USSR, 1-10 Aug 61.

ZALENSKIY, O.V.

Study of the relation between respiration and photosynthesis in plant leaves. Izv. AN SSSR. Ser. biol. no.2:202-212 Mr-Ap '61. (MIRA 14:3)

1. Botanical Institute, Academy of Sciences of the U.S.S.R., Leningrad.
(PLANTS—RESPIRATION) (PHOTOSYNTHESIS)

DILOV, Kh.V.; FILIPPOVA, L.A.; SHTAN'KO, T.P.; VOZNESENSKIY, V.L.;
SEMIKHATOVA, O.A.; ZALENSKIY, O.V.

Dark metabolism of organic compounds in barley at different temperatures. Trudy Bot. inst. Ser. 4 no.15:3-24 '62. (MIRA 15:7)
(Plants--Metabolism)

ACCESSION NR: AR4036032 S/0299/64/000/006/G008/G008

SOURCE: Referativny*y zhurnal. Biologiya, Abs. 6G44

AUTHOR: Zalenskiy. O. V.

TITLE: The maximal potential intensity of photosynthesis of plants of the Pamyrs and other climatic areas

CITED SOURCE: Tr. Pamirsk. biol. st., v. 1, 1963, 53-60

TOPIC TAGS: photosynthesis, plant physiology, botany, photosynthetic pigment, chloroplast, ecology

TRANSLATION: The determination of the maximal value of the potential intensity of photosynthesis which is reached under conditions of saturation of photosynthesis with light and CO_2 at the optimal temperature and optimal status of the internal factors, was accomplished by a radiometric method. Investigation of the intensity of photosynthesis in 187 species of plants belonging to various ecological types showed that the maximal potential intensity varied from 5-10 to 150-180 mg of CO_2 per 1 square decimeter (dm^2) of leaf surface, or from 10 to 200-220 mg CO_2/1 mg

Card 1/2

ACCESSION NR: AR4036032

dry weight. Quite large differences in intensity were observed among the various species which lived under the same conditions. The differences in the maximal potential intensity of photosynthesis between plants of the same species living in various zones (from the Kola Peninsula to the Eastern Pamyrs) were slight. This value was practically the same in the bilberry, red bilberry, and strawberry from the Kola Peninsula and from the northern slopes of the Central Caucasian mountain range. The author concludes that the maximal potential intensity of photosynthesis represents a property which is determined by the hereditary characteristics of the plant, including the structure of the assimilatory apparatus, the state of the pigments in the chloroplasts, the properties of the enzyme systems, etc. Botanicheskiy institut AN SSSR, Leningrad (Botanical Institute, AN SSSR). V. Korshunova

DATE ACQ: 09Apr64 SUB CODE: LS ENCL: 00

Card 2/2

GLAGOLEVA, T.A.; MAMUSHINA, N.S.; ZALENSKIY, O.V.

Carbon C^{14} metabolism in Chlorella pyrenoidosa Chick. in light and in darkness. Bot.zhur. 50 no.2:173-181 F '65. (MIRA 18:12)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad. Submitted June 15, 1964.

ZALENSKIY, O.V.; GLAGOLEVA, T.A.; MAMUSHINA, N.S.

Effect of temperature on the free amino acid content in Chlorella pyrenoidosa. Fiziol.rast. 12 no.6:1081-1083 N-D '65.
(MIRA 18:12)

1. Laboratoriya fotosinteza Botanicheskogo instituta imeni V.L. Komarova AN SSSR, Leningrad, i Institut fiziologii imeni I.P. Pavlova AN SSSR. Submitted June 29, 1964.

LAVRENKO, Ye.M.; ZAIENSKIY, O.V.

Botanists as organizers of the Russian Botanical Society.
Bot. zhur. 50 no.12:1751-1768 D '65. (MIRA 19:2)

ACC NR: AP7002833 (A, N) SOURCE CODE: UR/0319/66/051/012/1683/1693

AUTHOR: Glagoleva, T. A.; Zalenskiy, O. V.

ORG: Botanical Institute imeni V. L. Komarov, Academy of Sciences SSSR, Leningrad (Botanicheskiy institut akademii nauk SSSR)

TITLE: The bioenergetics of assimilatory cells of Chlorella pyrenoidosa. Chick.

SOURCE: Botanicheskiy zhurnal, v. 51, no. 12, 1966, 1683-1693

TOPIC TAGS: plant respiration, photosynthesis, chlorella

ABSTRACT:

The relationship between photosynthesis and respiration in intact cells of Chlorella pyrenoidosa Chick. was investigated from the point of view of energetics. The rate of photophosphorylation and oxidative phosphorylation was estimated indirectly, based on ATP consumption. One of the processes known to require the energy is the biosynthesis of polysaccharides; therefore, this process was chosen as an index of the phosphorylation rate. The rate of polysaccharide biosynthesis was estimated on the basis of the intensity of incorporation of C^{14} into these compounds. The suspension of Chlorella pyrenoidosa was exposed to different gas mixtures after photosynthesis in

Card 1/2 UDC: 577.3:581.13:582.26

ACC NR: AP7002833

a normal atmosphere with $C^{14}O_2$. It was necessary to distinguish between photophosphorylation and oxidative phosphorylation. It was found that the energy requirement for biosynthesis of polysaccharides in light is supplied entirely at the expense of photophosphorylation, while in dark, oxygen is necessary for this biosynthesis. Such a conclusion was reached on the basis of results of experiments in dark where the rate of polysaccharide biosynthesis was correlated with oxygen concentration. In light, the rate of biosynthesis of polysaccharides did not depend on oxygen concentration. Biosynthesis of polysaccharides in dark by oxidative phosphorylation amounted to 30—40% of that occurring in light, when photophosphorylation takes place. The exclusion of CO_2 from the atomsphere decreased the incorporation of C^{14} into polysaccharides by approximately 25—30%.

SUB CODE: 06/ SUBM DATE: 19Aug66/ ORIG REF: 006/ OTH REF: 012
ATD PRESS: 5113

Card 2/2

L 4973-66 EWT(1)/EWT(m)/FS(v)-3 DD/RM

ACC NR: AP5028096 SOURCE CODE: UR/0326/65/012/006/1081/1083

AUTHOR: Zalenskiy, O. V.; Glagoleva, T. A.; Mamushina, N. S. 34

ORG: Photosynthesis Laboratory of the Botanical Institute im. V. L. Komarov, Academy of Sciences, SSSR, Leningrad (Laboratoriya fotosinteza Botanicheskogo instituta Akademii nauk SSSR); Physiology Institute im. I. P. Pavlov, Academy of Sciences, SSSR, Leningrad (Institut fiziologii Akademii nauk SSSR) 53

TITLE: The effect of temperature on the content of free amino acids 1 in Chlorella pyrenoidosa 2

SOURCE: Fiziologiya rasteniy, v. 12, no. 6, 1965, 1081-1083

TOPIC TAGS: plant physiology, plant chemistry, chlorella, amino acid

ABSTRACT: A quantitative determination was made of the amount of free amino acids in Chlorella pyrenoidosa under the influence of different temperatures. Three samples of a Chlorella suspension were placed in the dark for 5 hr at temperatures of 4, 22, and 35C. The amount of individual free amino acids was determined by paper chromatography. Experimental results are given in Table 1. Since a control

Card 1/3 UDC: 581.134.4.036

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L 4973-66

8

ACC NR: AP5028096

Table 1. The effect of different temperatures on the content of free amino acids in Chlorella

Amino acids	Content of free amino acids, mg/g of dry substance			
	In initial sample	After keeping in the dark 5 hr at		
		4°	22°	35°
Glutamic acid	2.4	4.5	2.6	1.2
Aspartic acid	0.5	0.9	0.5	1.0
Alanine	2.2	2.3	2.3	2.8
Serine	0.9	0.9	1.0	1.0
Glutamine	1.3	1.2	1.4	1.8
Glycine	0.7	1.0	—	1.0
Threonine	0.4	0.5	0.4	0.5
Leucine	0.2	—	0.2	0.4
Valine	0.3	—	0.3	0.6
Phenylalanine	0.2	0.2	—	0.4
Tyrosine	0.1	0.1	0.1	0.3
Cystine	0.2	—	—	0.4
Arginine	0.2	0.2	—	0.4
Histidine	0.3	—	0.3	0.3

sample kept in the dark at 22C showed no changes in amino acid composition, all the quantitative differences observed in experimental samples can be attributed solely to the influence of temperature. The increases observed in glutamic and aspartic acid contents at low temperature agree with the results of previous experiments on higher plants. Likewise, the decrease in the glutamic acid content at high tem-

Card 2/3

L 4973-66

ACC NR: AP5028096

perature has also been observed in higher plants. Various explanations for the consumption of glutamic acid at high temperature are considered. Orig. art. has: 1 table. [JS]

SUB CODE: LS/ SUBM DATE: 29Jun64/ ORIG REF: 005/ OTH REF: 011/ ATD PRESS: 4138

Card 3/3

VOZNESENSKIY, Viktor Leonidovich; ZALENSKIY, Oleg Vyacheslavovich; SEMIKHATOVA, Ol'ga Aleksandrovna; Prinimali uchastiye: GLAGOLEVA, T.A.; FILIPPOVA, L.A.

[Methods of photosynthesis and respiration studies] Metody issledovaniia fotosinteza i dykhaniia rastenii. Moskva, Nauka, 1965. 304 p. (MIRA 18:8)

1. Laboratoriya fotosinteza Botanicheskogo instituta im.V.L. Komarova AN SSSR (for Glagoleva, Filippova).

GLAGOLEVA, T.A.; MAMUSHINA, N.S.; ZALENSKIY, O.V.

Aftereffect of temperature on the metabolism of carbon (C14) in Chlorella pyrenoidosa Chick. Bot. zhur. 50 no.4:461-472 Ap '65. (MIRA 18:5)

1. Botanicheskiy institut imeni Komarova AN SSSR i Institut fiziologii imeni Pavlova AN SSSR, Leningrad.

ZALENSKIY, O. V.

"The potential rate of photosynthesis in plants from different zones of vegetation of the USSR."

report submitted for 10th Intl Botanical Cong, Edinburgh, 3-12 Aug 64.

AS USSR.

ZALENSKIY, V.S.

MASTEROV, I.P.; **ZALENSKIY, V.S.**, inzhener, nauchnyy redaktor; UDOD, V.Ya., redaktor; PECHKOVSKAYA, T.V., tekhnicheskiy redaktor; PERSON, M.N., tekhnicheskiy redaktor.

[Work practice on the bulldozer] Opyt raboty na bul'dozere.
Moskva, Gos. izd-vo lit-ry po stroitel'stvu i architekture, 1954.
39 p. (MIRA 7:8)
(Bulldozers)

ZALENSKIY, VYACHESLAV STANISLAVOVICH

ZALENSKIY, Vyacheslav Stanislavovich, inzh.; MOVCHAN, Fedor Fomich, inzh.;
STOLYAROV, N.T., inzh., nauchnyy red.; BEGAK, B.A., red.izd-va;
GUSEVA, S.S., tekhn.red.

[Hoisting, conveying and building machinery; design examples and reference data] Poc'emno-transportnye i stroitel'nye mashiny; primery raschetov i spravochnye materialy. Moskva, Gos.izd-vo lit-ry po stroit.i arkhit., 1957. 285 p. (MIRA 11:1)
(Conveying machinery) (Building machinery) (Hoisting machinery)

LAVRENKO, Ye.M., obshchiy red.; KORCHAGIN, A.A., obshchiy red.;
ZALENSKIY, O.V., red.; PLINER, V.A., red.izd-va; SMIRNOVA,
A.V., tekhn.red.

[Field geobotany] Polevaia geobotanika. Pod obshchei red.
E.M.Lavrenko i A.A.Korchagina. Moskva. Vol.1. 1959. 444 p.
(MIRA 13:2)

1. Akademiya nauk SSSR. Botanicheskiy institut.
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SOKOLOVA, Anna Dmitriyevna, kand.tekhn.nauk; KOROBOV, V.M., inzh.;
ZALENSKIY, V.S., inzh., nauchnyy red.; KROMOSHCH, I.L., inzh.,
red.izd-va; PRUSSAKOVA, T.A., tekhn.red.

[Hoisting machinery for erecting steel structures] Gruzopod"emnye mashiny i takelazh dlia montazha stal'nykh konstruktsii. Izd.2. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1958. 310 p. (MIRA 12:6)
(Hoisting machinery) (Building, Iron and steel)

PETROV, Nikolay Mitrofanovich, dots., kand. tekhn. nauk; DOMBROVSKIY, N.G., prof., doktor tekhn. nauk, red.; ZALENSKIY, V.S., inzh., nauchnyy red.; KROMOSHCH, I.L., red. izd-va; RUDAKOVA, N.I., tekhn. red.

[Building and road machinery] Stroitel'nye i dorozhnye mashiny. Pod obshchei red. N.G.Dombrovskogo. Moskva, Gos. izd-vo lit-ry po stroit., arkhit.i stroit.materialam, 1961. 366 p. (MIRA 14:12)

(Building machinery) (Road machinery)

ZALENSKIY, V.S.; IVANOV, A.I.; KHROMOSHCH, I.L., inzh., nauchnyy red.;
BOROVNEV, N.K., tekhn. red.

[Construction machinery and equipment]Stroitel'nye mashiny i oborudovanie. Moskva, Gosstroiizdat, 1962. 291 p.
(MIRA 15:10)

(Construction equipment)

ZALENSKIY, Vyacheslav Stanislavovich; KONONENKO, M.A., red.;
BOCHAROVA, Yu.F., red.izd-va; YEZHOVA, L.L., tekhn. red.

[Hoisting and conveying, and construction machinery] Pod"emno-transportnye i stroitel'nye mashiny; primery raschetov i spravochnye materialy. Izd.2., dop. i perer. Moskva, Gos.izd-vo "Vysshaia shkola," 1963. 362 p. (MIRA 16:10)
(Construction equipment)

IPATOV, Petr Platonovich, inzh.; FINKEL', Abram Froymovich, inzh.; ZALENSKIY, V.S., inzh., nauchn. red.; PEREVALYUK, M.V., red.; SHEVCHENKO, T.N., tekhn. red.

[Rigging operations and hoisting and conveying machinery used in assembling] Takelazhnye raboty i montazhnye pod"emno-transportnye mekhanizmy. Moskva, Stroiizdat, 1964. 246 p. (MIRA 17:2)

STANKOVSKIY, Aleksey Petrovich; ZALENSKIY, V.S., inzh., nauchn. red.

[Construction machinery and equipment] Stroitel'nye mashiny i oborudovanie. Moskva, Stroiizdat, 1964. 334 p. (MIRA 18:1)

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Foreign tractor-mounted low-power rippers. Stroi. i dor.mash. 10 no.12:11-13 D '65.

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ZALENSKIY, V.S.; GRONDA, V.I., red.

[Modern construction and road machines and equipment] Sovremennye stroitel'nye i dorozhnye mashiny i oborudovanie. Moskva, Mosk. avtomobil'no-dorozhnogo in-ta. No.1. 1964. 66 p. (MIRA 19:1)

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Maximum potential intensity of photosynthesis in plants of the Pamirs and other climatic zones. Trudy Pam. biol. sta. 1:53-60 '63.

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NASYROV, Yu.S., otv. red.; SAPOZHNIKOV, D.I., red.; PROKOF'YEV, A.A., red.; ZALENSKIY, O.V., red.; MAKSUMOV, A.N., red.; KARIMOV, Kh.Kh., red.; LOGINOV, M.A., red.; GILLER, Yu.Ye., red.; USMANOV, P.D., red.; KAS'YANENKO, A.G., red.; RAKHMANINA, K.P., red.

[Contribution of plant physiology to agriculture; problems of photosynthesis and metabolism] Fiziologiia rastenii - sel'skomu khoziaistvu; voprosy fotosinteza i obmena veshchestv. Dushanbe, Izd-vo AN Tadzhikskoi SSR, 1965. 131 p. (MIRA 18:4)

1. Akademiya nauk Tadzhikskoy SSR, Dushanbe. Institut fiziologii i biofiziki rastenii.

ZALENY, A.; KOZAK, J.; MENTBERGER, J.; STOLARIK, R.

Further physiological studies on the exertion in forestry workers. Cesk. fysiol. 8 no.3:262-263 Apr 59.

1. Fysiologicky ustav lekarske fak. KU, Plzen Vyzkumny ustav lesniho hospodarstvi, Zbraslav a Krajska sprava lesu, Plzen. Predneseno na III. fysiologickych dnech v Brne dne 14. 1. 1959.
(WORK, physiol.
exertion of forestry workers (Cz))

L 05072-67 ARG/EWT(d)/FSS-2/FBO/EWP(c)/EWP(h) IJP(c) DE

ACC NR: AM6016925 (A) Monograph UR/ 47 46

Zalepa, Vladimir Artemovich

Combat with low-flying aerial targets. (Bor'ba s nizkoletyashchimi B+1 tselyami) Moscow, Voyenizdat M-va obor SSSR, 1966. 62 p. illus., biblio., 5500 copies printed.

TOPIC TAGS: guided missile tactic, tactical warfare, air defense tactic, air force tactic, air defense system

PURPOSE AND COVERAGE: This book, intended for officers of the Soviet armed forces, including reserve officers and students in military schools, discusses problems of defense against low-flying aircraft and missiles. The author describes the methods of attack used by Western countries, their weapons, equipment, and instruments, and discusses methods of providing a defense against such attacks. The book is based on Soviet and Western sources and has 21 illustrations.

TABLE OF CONTENTS [abridged]:

Introduction -- 3

Ch. I. Means of attack from low altitude and its combat application -- 5

Card 1/2

L 05072-67

ACC NR: AM6016925

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Ch. II. Organization of antiaircraft defense for detection and destruction of low-flying targets -- 18
Ch.III. Means of defense against low-flying targets and their applications -- 26
Ch. IV. Control units of guided missiles used in combat against low-flying targets -- 52

References -- 62

9

SUB CODE: 01, 15, 16/ SUBM DATE: 17Dec65/ ORIG REF: 009/ OTH REF: 045/

Card 2/2 fv

VACEK, J.; ZALESAK, A.

Problem of planning building activities within a region. Poz stavby 11 no.2:93-95 '63.

1. Krajske sdruzeni narodnich podniku ve stavebnictvi, Brno.

Problems of labor productivity measurement in building enterprises. Poz stavby 12 no.11:461-464 '64.

1. Regional Association of National Building Enterprises, Brno.

ZALESAK, I.

Discussion on types of accounting. p. 23.
Now Harvesting machinery. p. 24.
ROLINICKE HLASY. (Ministerstvo zemedelstvi.
Hiavni aprava jednotnych zemedelskych druzstev) Praha.
Vol. 10, no. 6, June 1956.

SOURCE: EEAL LC Vol. 5, No. 10, Oct. 1956

ZALESAK, Stefan

Delivery of postal parcels. Cs spoje 7 no.1:24-26 Ja '62.

1. Pracovnik Zapadoslovenskej krajskej spravy spoju.

ZALESAK, Z., inz.; DVORACEK, F.

Connection of phasemeters in low-tension distribut[illegible].
Energetika Cz 7 no.2:95-99 F '57.

ZALESAK, Z.

Determining the size of the condenser and power factor for consumers up to the maximum of 300 kw. p. 350.

Vol. 5, no. 9, Sept. 1955
ELEKTROTECHNICKY OBZOR
Praha, Czechoslovakia

Source: East European Accession List. Library of Congress
Vol. 5, no. 8, August 1956

ZALESAK, Z.

Assembling condensers and measurements in the Telc region. (Supplement) p. 49.
(Energetika, Vol. 6, no. 6, June 1956. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions. (EEAL) LC. Vol. 6, No. 6,
June 1957. Uncl.

ZALESAK, Z.; TOUFAR, C.

"Series compensation of power in medium-voltage networks."

ENERGETIKA, Praha, Czechoslovakia, Vol. 9, no. 5, May 1959

Monthly list of East European Accessions Indes (EEAI), Library of Congress, Vol. 8, no. 8, August 1959

Unclassified

ZALESAK, Z.

Compensation in rural electric-power networks of low voltage by means of static condensers.

P. 21. (ENERGETIKA) (Praha, Czechoslovakia) Vol. 8, no. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, May 1958

ZALESAK, Zdenek, inz., CSc.

Output losses in low-voltage networks. Energetika Cz 13 no.10:541-545 O '63.

1. Laborator energetiky, Ceskoslovenska akademie ved, Brno.

SOURCE CODE: UR/0269/66/000/006/0064/0064

ACC NR: AR6028770

AUTHOR: Bonelis, I. V.; Zaleshchenko, R. I.

TITLE: Atmospheric disturbances in low latitudes and in the southern hemisphere, caused by recurrent corpuscular solar fluxes

SOURCE: Ref. zh. Astronomiya, Abs. 6.51.489

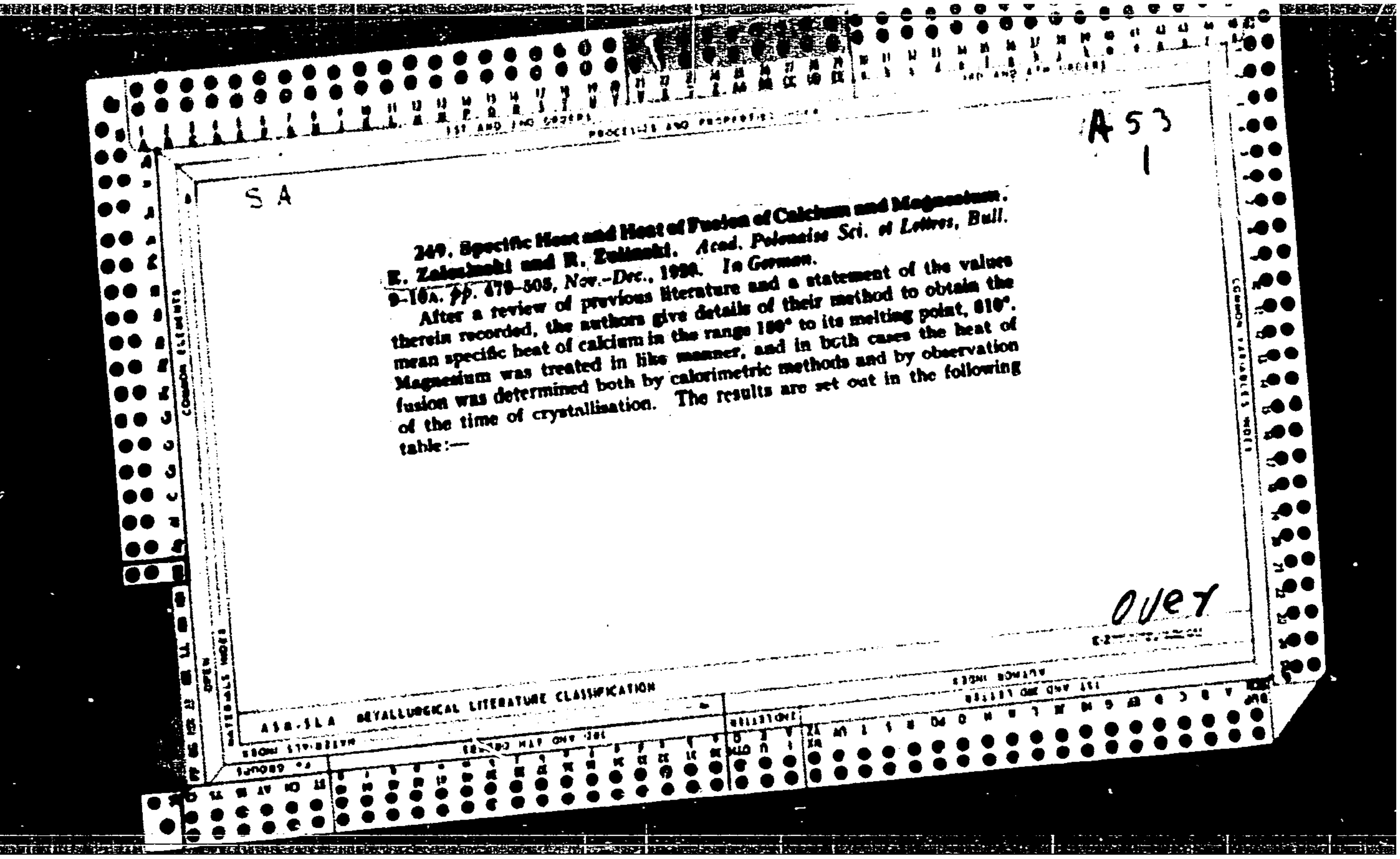
REF SOURCE: Sb. Solnechn. aktivnost'. No. 2. M., Nauka, 1965, 88-91

TOPIC TAGS: solar activity, solar disc, solar disturbance

TRANSLATION: The relationship between disturbances in the lower atmosphere and the passage of active areas through the center of the solar disc was examined. Data on solar activity for 1957-59 and 1961-62 were used. Seven geographic points in the preequatorial zone and the southern hemisphere were considered. The principal source material used was data on atmospheric pressure in South America. The maximum pressure for all points was noted on the sixth day after the active area passed through the center of the solar disc. Previously, the authors obtained similar results for the northern hemisphere. A relationship between the amplitude of atmospheric disturbances and the geomagnetic latitude exists both in the southern and northern hemispheres. 11 references. B. Rubashev.

SUB CODE: 03 UDC: 523.75:525.23

Card 1/1


PROCESSES AND PROPERTIES INDEX
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

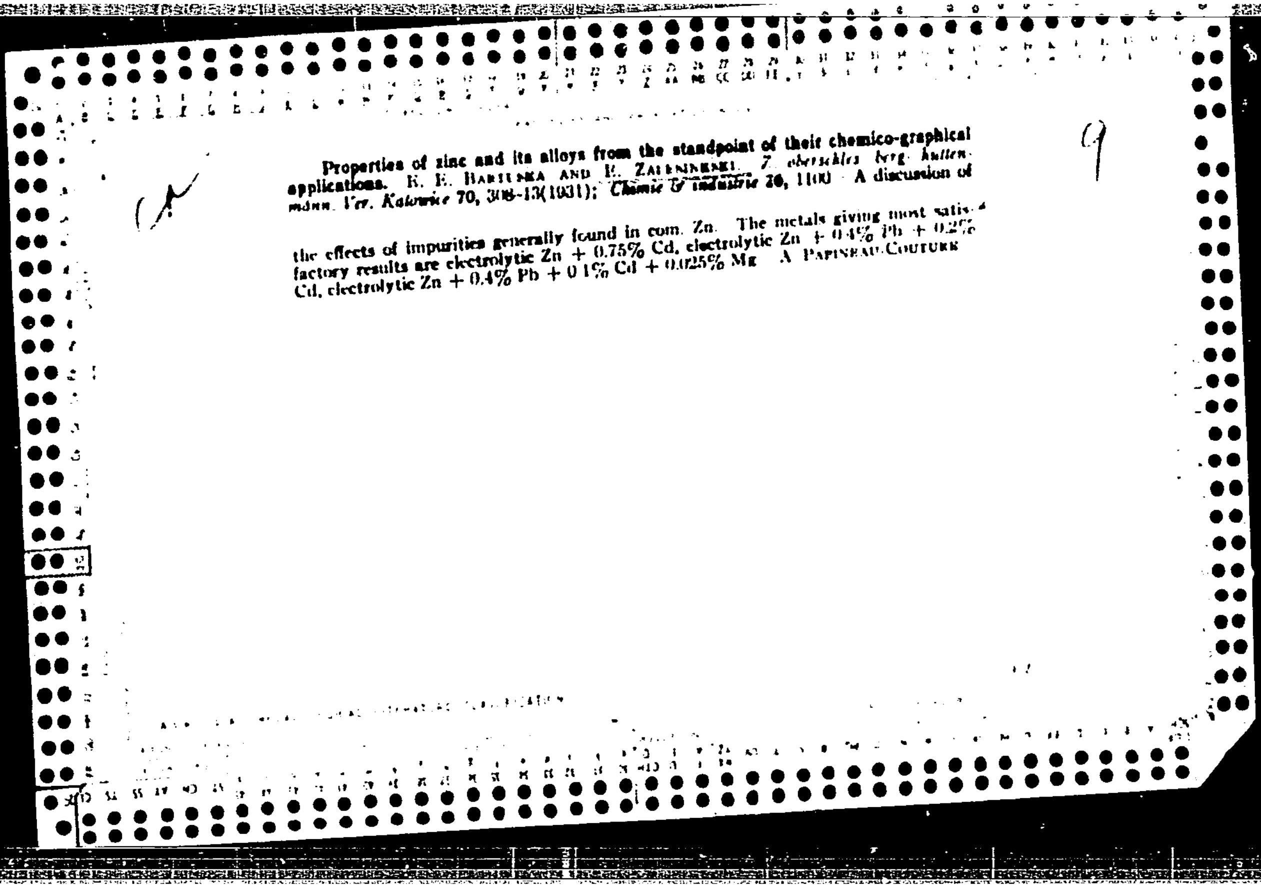
S A

A53
1

249. Specific Heat and Heat of Fusion of Calcium and Magnesium. **E. Zalesinski and R. Zulinski.** *Acad. Polonaise Sci. et Lettres, Bull.* 9-10A. pp. 479-505, *Nov.-Dec.*, 1930. *In German.*

After a review of previous literature and a statement of the values therein recorded, the authors give details of their method to obtain the mean specific heat of calcium in the range 100° to its melting point, 810°. Magnesium was treated in like manner, and in both cases the heat of fusion was determined both by calorimetric methods and by observation of the time of crystallisation. The results are set out in the following table:—

over



9

Properties of zinc and its alloys from the standpoint of their chemico-graphical applications. K. E. Bartelska and E. Zaleniewski. *Z. oberschles. berg- hüttenmänn. Ver. Katowice* 70, 308-13(1931); *Chemie & industrie* 26, 1100.—A discussion of the effects of impurities generally found in com. Zn. The metals giving most satisfactory results are electrolytic Zn + 0.75% Cd, electrolytic Zn + 0.4% Pb + 0.2% Cd, electrolytic Zn + 0.4% Pb + 0.1% Cd + 0.025% Mg. A. Papineau-Couture

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

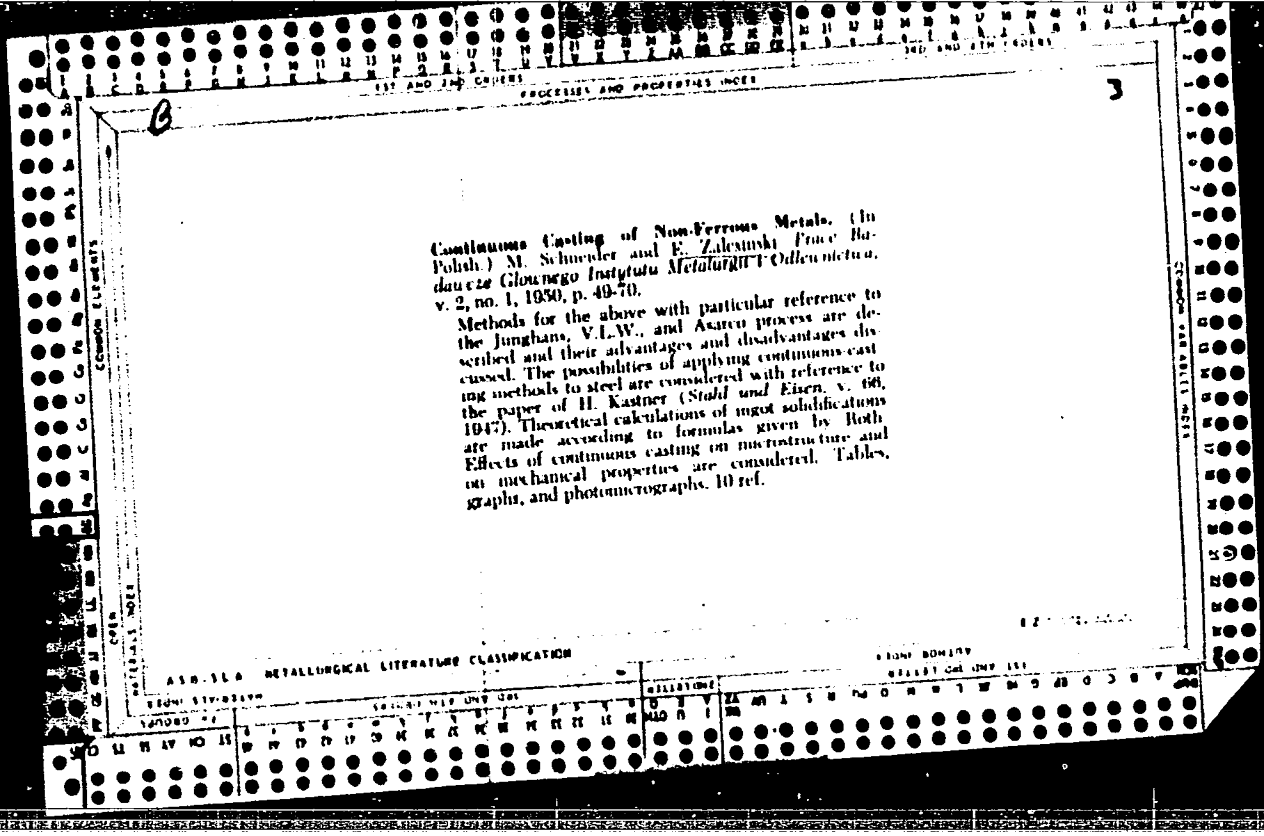
11

7

Determination of silicon in aluminium alloys. Mnich and Zaksiński. *Przeglad Chem.* 2, 87–91(1938).—crit. review of the methods of detg. Si in various forms occurring in Al alloys illustrated by some analytical results.

E. Józefowicz

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION


1ST AND 2ND CODERS
PROCESSES AND PROPERTIES INDEX
3RD AND 4TH CODERS
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

B

3

Continuous Casting of Non-Ferrous Metals. (In Polish.) M. Schneider and E. Zalesinski. *Prace Badawcze Glownego Instytutu Metalurgii i Odlewnictwa*, v. 2, no. 1, 1950, p. 49-70.

Methods for the above with particular reference to the Junghans, V.L.W., and Asarco process are described and their advantages and disadvantages discussed. The possibilities of applying continuous-casting methods to steel are considered with reference to the paper of H. Kastner (*Stahl und Eisen*, v. 66, 1947). Theoretical calculations of ingot solidifications are made according to formulas given by Roth. Effects of continuous casting on microstructure and on mechanical properties are considered. Tables, graphs, and photomicrographs. 10 ref.

C A 9

1951

Substitute materials for Fourdrinier screens. K. Zaleski. *Prace Glów. Inst. Met.* **3**, No. 1, 65-73(1951).—A Ni brass contg. Cu 67.6, Ni 6.1, and Fe 0.5% and Si-Mn bronze contg. Si 2.5, Mn 0.9, and Fe 0.62% were used as substitute alloys for Fourdrinier screens. Of these the former was used for the weft and the latter for the warp wire. The alloys were melted at 1200° and cast at 1150°. Two hrs.' annealing at 750° for the brass and 770° for the bronze imparted satisfactory structure. Longer annealing caused excessive grain growth. Two methods were tried in making the wire, the first of which comprised rolling, cutting out a spiral, and drawing the latter, and the second consisted of extruding a bar formed from a round ingot and drawing the bar into a wire. Both were satisfactory. The degree of drawing should not exceed 80% otherwise internal weaknesses may set in. For etching the bronze most favorable results gave a soln. contg. H_2SO_4 10, HNO_3 20, and HF 5%. Wire less than 1 mm. thick should be annealed in a protective atm. The preferred final annealing was at a temp. below the temps. of intermediate reheatings. For a bronze wire 0.2 mm. thick contg. Si 2.5 and Mn 1%, the optimum temp. for final annealing was 500° and for the Ni brass 600°. The wires were tested for corrosion in 0.05% H_2SO_4, 0.5% Na_2SO_4, and tap water. The results proved them to be satisfactory for the manuf. of Fourdrinier screens.

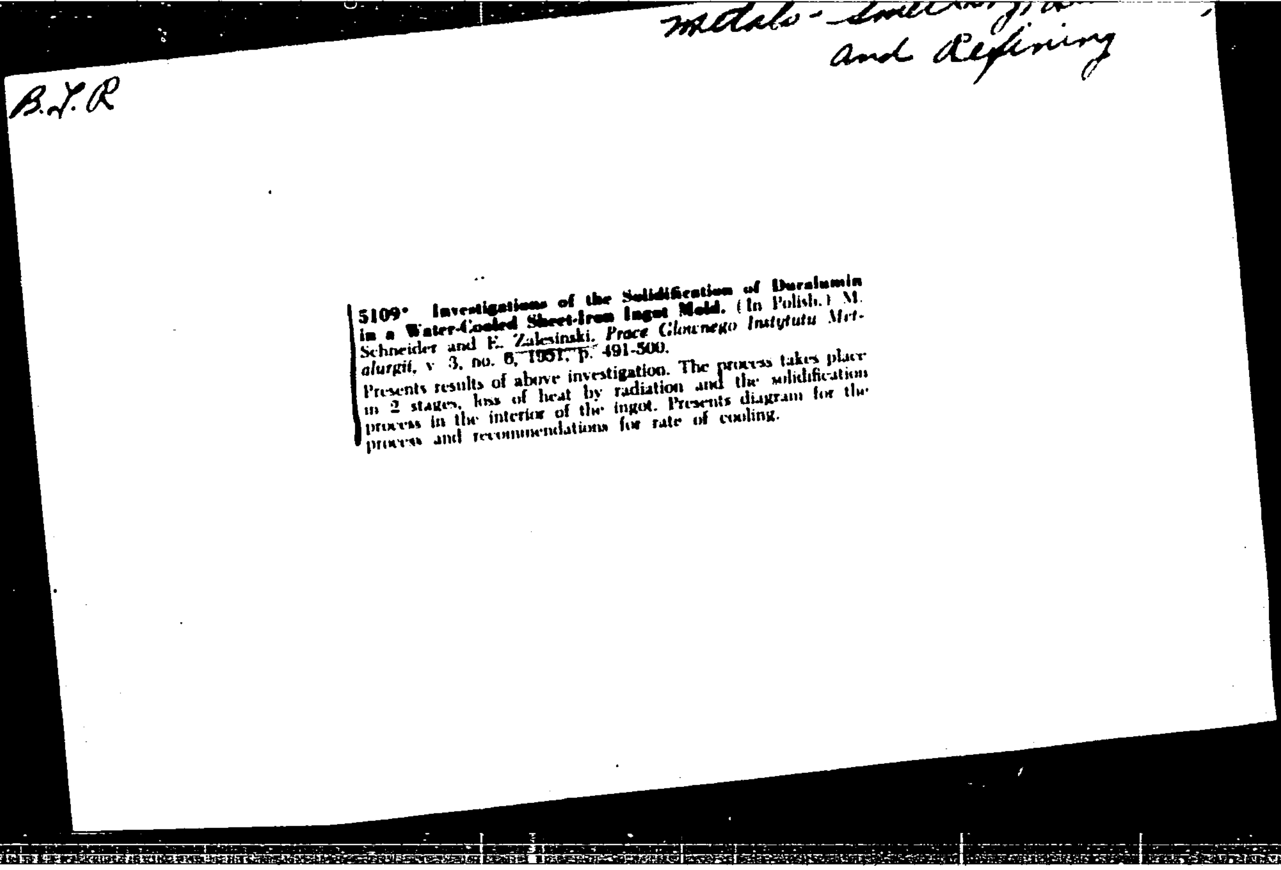
M. Hosch

Met. Rev.
1951

V- Materials
General Coverage
of Specific
Materials

108-V. **Thermostatic Bimetals.** (In Polish.) E. Zalesinski. *Prace Glownego Instytutu Metalurgii*, v. 3, No. 3, 1951, p. 256-258.

Forms, compositions, applications, methods of casting, surface treatment before bonding, and rolling. (SG-s)



Metals - Smelting, [illegible]
and Refining

B.I.R

5109* Investigations of the Solidification of Duralumin in a Water-Cooled Sheet-Iron Ingot Mold. (In Polish.) M. Schneider and E. Zalesinski. *Prace Glownego Instytutu Metalurgii*, v. 3, no. 6, 1951, p. 491-500.

Presents results of above investigation. The process takes place in 2 stages, loss of heat by radiation and the solidification process in the interior of the ingot. Presents diagram for the process and recommendations for rate of cooling.

Metallurgy and metallography
9

C a.
1951

Corrosion of copper, aluminum, and magnesium and their alloys. M. Orman and E. Zalesiński. *Hutnik* **18**, 99-101(1951).—A description of different types of corrosion of Cu and Cu-alloys. Most frequent types of corrosion are characterized as uniform, local, and strain corrosion. Such factors as the influence of chem. compn. and protective coatings are discussed. O. and E. give a review of different Al, Mg alloys. The properties of these alloys are tabulated and the corrosion of the other light alloys is discussed. Adam J. Pikor

ZALESINSKI, E.

Met 7/2

Polish Technical Abst.
No. 4, 1953
Metallurgy

2400

Zaleśiński E. Hot Working of Pure Magnesium by Drawing. 669.721-426 : 621.946.1

„Przeróbka plastyczna czystego magnezu drogą przeciągania". (Prace Inst. Metalurgii No. 5), Katowice, 1952, PWT, 3 pp., 4 figs.

The author describes a melting and continuous casting process of pure magnesium (99.8% Mg) and its hot working by extruding and drawing. The operation of wire drawing should be performed at a temperature of over 230°C, and at drawing rates as low as possible amounting to 5 to 7 metres per minute for coarse wires, and to 1 to 2 metres per minute for fine wires (diameter below 1 mm). In order to avoid the breaking of fine wires at the starting of the drawing machine, shock and jerk absorption should be observed.

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Polish Technical Abst.
No. 4, 1953
Metallurgy

2390 655.32:669.575.001,5

Krupkowski A., Zalesinski E., Babinski W. Zinc Graphic Plates. Cynkowe plyty graficzne. (Prace Inst. Metalurgii No. 3), Katowice, 1952, PWT, 19 pp., 16 figs., 3 tabs.

With a view to improving the quality of Polish made zinc graphic plates, the authors performed a number of experiments changing the chemical composition of the alloy by an addition of magnesium and also of aluminium. The hardness of manufactured zinc plates, the granularity of the alloy and the grain growth at high temperatures were investigated. The usefulness of such plates for printing purposes was considered. Zinc alloys with the addition of 0.08% to 0.4% of magnesium or of magnesium and aluminium in a quantity of 0.4% Mg and 0.4%. Al produced particularly good results as regards the manufacturing of graphic plates.

Zalesinski, E

Zinc typographic plates. A. Krupkowski, E. Zalesinski, and B. Babinski (*Prace Inst. Metal.*, 1952, 4, 223—241).—The experiments performed show that Zn typographic plates made with addition of small amounts of Mg, or Mg and Al possess better qualities than those made with addition of Cd. The addition of Mg or Mg and Al decreases the grain size and raise the temp. of recrystallisation. Contamination with Pb to the extent of 0·3% or higher is injurious to the properties of the plates.

S. K. LACHOWICZ.

Zalesinski, E.

5000

✓ Hot-working of pure magnesium by drawing. E. Zalesinski (Prace Inst. Metal., 1952, 4, 337—360).—Hot-working of (99·8% pure) Mg by extrusion and drawing is described. The temp. of drawing is 250—300°; the drawing rates vary from 5 to 7 m. per min. for thick wires to 1 to 2 m. per min. for fine wires. Short annealing at 300° is applied several times during the process of drawing. To avoid the breaking of the fine wires shocks and jerks must be eliminated at the starting of the drawing machines.

LFH

ZALESINSKI, E.

Chemical Abst.
Vol. 48 No 8
Apr. 25, 1954
Metallurgy and Metallography

ZALESINSKI

② met

Beryllium and copper-beryllium alloys. E. Z[illegible] and Z. Misiolek. *Hutnik* 20, 245-50(1953).—~~A review of~~ the methods of production, mech. properties, and fields of application of Be and its copper alloys. 12 references.

M. O. Holowaty

ZALESKI, J.; JABLONSKI, J.

The paper industry in Poland, p. 410.

NOVA TECHNIKA. (Ceskoslovenska vedeckyo-technicke spolecnost)
Praha, Czechoslovakia
No. 9, Sept. 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 11
Nov. 1959
Uncl.

MIEROSLAWSKI, Witold; OBIDZINSKA, Zofia; ZALESKA, Aleksandra

Alcohol consumption by children aged from 7 to 14 years. Pediat.
Pol. 37 no.3:315-317 '62.

1. Z Wojewodzkiej Przychodni Higieny Szkolnej w Gdansku Dyrektor:
dr med. W. Mieroslawski.

(ALCOHOLISM in inf & child)

DOBRZYNSKI, Zbigniew; BAZYLEWICZ, Tadeusz; KOKOCHA, Barbara;
WARTERESIEWICZ, Irena; WOJTAL, Stanislaw; ZALESKA, Barbara [redacted]

Comparison of the early and late results of pneumothorax treatment in pulmonary tuberculosis. Gruslica 24 no.8: 719-724 Aug 56.

1. Z Panstwowego Sanatorium Przeciwgrusliczego w Tuszynku
Dyrektor: dr. med. M. Czkwianianc.
(PNEUMOTHORAX, ARTIFICIAL, statist.
comparison of early & late results)

DOBRZYNSKI, Zbigniew; BAZYLEWICZ, Tadeusz; KOKOCHA, Barbara;
WARTERESIECICZ, Irena; WOJTAL, Stanislaw; ZALESKA, Barbara

Pneumothorax treatment in cases of bilateral tuberculosis.
Gruzlica 24 no.8:725-728 Aug 56.

1. Z Panstwowego Sanatorium Przeciwgruzliczego w Tuszynku
Dyrektor: dr. med. M. Czkwianianc.
(PNEUMOTHORAX, ARTIFICIAL
in bilateral pulm. tuberc.)

[illegible], Wanda, mgr inz.; [illegible], Bogdan, mgr inz.

Measuring instrument for components of complex magnetic permeability of ferrites in weak changeable fields in the 110-[illegible] frequency range. Przegl telekom 36 no.[illegible] :Supplement: Biul inst tele i radiotech 9 no.2:238-240 Jl-Ag'64

POLAND

ZALESKA, Ewa

Dept. of Inorganic Chemistry, Wroclaw Medical Academy (Pharmacy Section), Wroclaw (Katedra Chemii Nieorganicznej Wydzialu Farmaceutycznego Akademii Medycznej we Wroclawiu)

Wroclaw, *Wiadomości chemiczne*, No 6, June 1966, pages 387-389

"Research on thermodynamic systems Thallium - Tellurium and Thallium-Selenium." (Doctoral thesis)

TERPILOWSKI, Janusz; ZALESKA, Ewa

Thermodynamic properties of thallium-tellurium liquid solutions.
Rocz chemii 37 no.2:193-200 '63.

1. Department of Inorganic Chemistry, School of Medicine, Wroclaw.

KUNDYS, Emil; TERPILOWSKI, Janusz; ZALESKA, Ewa

Thermodynamic properties of liquid solutions of metals. Pt. 10.
Archiw hutn 7 no.3:233-241 '62.

1. Katedra Chemii Nieorganicznej, Wydzial Farmaceutyczny, Akademia Medyczna, Wroclaw.

ALTENBERGER, Stanislaw; HINTZ, Regina; WARNOWSKI, Henryk; ZALESKA, Ewelina; CZERWINSKA, Wlodzimiera

Case of Wegener's syndrome. Polskie tygod. lek. 14 no.4:165-170 26 Jan 59.

1. Z III Kliniki Chorob Wewnetrznych; kierownik: prof. dr J. Wegierko, z Kliniki Okulistycznej; kierownik: prof. dr W.Melanowski i z Kliniki Laryngologicznej; P.O. kierownika doc. I. Cichocka-Szumilin. Adres: Warszawa, III Klin. Chor Wewn. A.M.

(GRANULOMA, case reports
Wegener's granulomatosis (Pol))
(PERIARTERITIS NODOSA, case reports
same)

P/038/62/007/003/001/002
E193/E383

AUTHORS: Kundys, Emil, Terpiłowski, Janusz and Zaleska, Ewa

TITLE: Thermodynamic properties of liquid-metal solutions. X. Pb-Tl system

PERIODICAL: Archiwum hutnictwa, v. 7, no. 3, 1962, 233-241

TEXT: Measurements of e.m.f. generated at 400 - 600 °C by a reversible cell of the type:

⊖		⊕
Tl	$(0.58\ LiCl + 0.42\ KCL) + 0.05\ TlCl$	Pb_xTl_{x-1}
liquid	melted salts	liquid solution

were used to determine some thermodynamic properties of liquid Pb-Tl solutions in a wide concentration range. Using the Gibbs-Duhem's equation and the experimental values of e.m.f. at 400, 500 and 600 °C and the temperature coefficient of e.m.f., the authors calculated the following properties:
1) changes in the partial molar thermodynamic potential $\Delta\bar{G}$,
Card 1/3

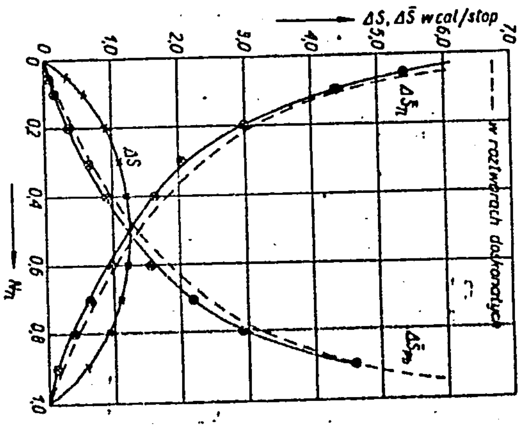
P/038/62/007/003/001/002
Thermodynamic properties E193/E383

entropy $\Delta\bar{S}$ and enthalpy $\Delta\bar{H}$ of both constituents;
2) changes of the thermodynamic potential, entropy and enthalpy of the solutions (calculated per g.a. of each solution);
3) activities α and activity coefficients f for both components in liquid solutions. The results, tabulated and reproduced graphically, were similar to those obtained earlier for the Bi-Tl and Bi-Pb solutions. The validity of the method employed was confirmed by the fact that the values of enthalpy of solutions obtained by this method were in good agreement with those obtained by F.E. Wittig and P. Scheidt (Z. phys. Chem. NF, 28, 1961, 120) with the aid of the calorimetric method. In general, the results of the present investigation provided support for the view that metals occupying adjacent positions in the periodic table form liquid solutions only slightly deviating from ideal solutions. This is demonstrated in Fig. 2, where the change in the partial molar enthalpy of both components ($\Delta\bar{S}_{Tl}$, $\Delta\bar{S}_{Pb}$) and the change in the entropy of the solutions ($\Delta\bar{S}$) are plotted against the Tl concentration, the

broken curves relating to ideal solutions. There are 5 figures and 5 tables.

SUBMITTED: September 26, 1961

Fig. 2:



Card 3/3

Zaleska, H.

MEISEL, H.;RYBICKA, I.;ZALESKA, H.

Botulin toxin type A. Med. dosw. mikrob., Warsz. 4 no. 2:165-176 1952. (CLML 22:4)

1. Of the National Institute of Hygiene in Warsaw.

MEISEL, H.;RYBICKA, I.;ZALESKA, H.

Studies on botulinus toxin A. Med. dosw. mikrob., Warsz. 4 no. 3: 331 1952. (CIML 23:3)

1. Summary of work progress presented at 11th Congress of Polish Microbiologists held in Krakow May 1951. 2. Warsaw.

MEISEL, H.;RYBICKA, I.;ZALESKA, H.

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1. Of the National Institute of Hygiene, Warsaw.

PAKULA, R.; RABCZYNSKA, F.; ZALESKA, H.

Phosphatase as index of pathogenicity of staphylococci. Med. dosw. mikrob. 5 no.1:71-76 1953. (CIML 24:5)

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